

IN THE CLAIMS:

The following is a complete listing of the claims in this application, reflects all changes currently being made to the claims, and replaces all earlier versions and all earlier listings of the claims:

1. (currently amended)      A method for producing a white LED of predetermined color temperature, comprising:

determining a wavelength of at least one of an uncoated blue LED or an uncoated UV LED of a plurality of LEDs;

determining once a quantity and a concentration of a conversion layer to be applied over the at least one uncoated blue LED or uncoated UV LED of a plurality of LEDs based on at least the wavelength determined, wherein the conversion layer includes a color conversion agent, said conversion layer configured to absorb at least one of blue light and UV light, and emit light of longer wavelength; and

coating with a conversion layer at least one of a blue the at least one uncoated LED or [[a]] the UV LED of a plurality of LEDs, with the conversion layer having the quantity and the concentration determined, wherein the coated LED has the predetermined color temperature said conversion layer absorbing at least one of blue light and UV light, and emitting light of greater wavelength, wherein an exact wavelength of the LED is determined before the coating step with a conversion layer and wherein said color conversion layer comprising a color conversion agent is applied over the LED in a quantity and concentration dependent upon the determined wavelength.

2. (previously presented)      The method according to claim 1, wherein the color conversion agent is applied by means of at least one of a dispenser and a stamp, and

wherein at least one of a quantity of said color conversion agent and a concentration of said color conversion agent is selected depending upon the exact wavelength.

3. (previously presented) The method according to claim 1, wherein the color conversion agent is applied by means of inkjet printing, and wherein at least one of a quantity of said color conversion agent and a concentration of said color conversion agent is selected depending upon the exact wavelength.

4. (previously presented) The method according to claim 1, wherein the color conversion agent is applied by means of deposition in a gas phase, wherein at least one of a quantity of said color conversion agent and a concentration of said color conversion agent is selected depending upon the exact wavelength.

5. (previously presented) The method according to claim 4, wherein a mask, such as a photomask, is produced, apertures of said mask being selected depending upon the exact wavelength, said deposition of color conversion agent in gas phase being effected through said mask.

6. (previously presented) The method according to claim 1, the color conversion agent is initially homogeneously applied and subsequently selectively removed by means of a laser in correlation with the exact wavelength.

7. (currently amended) A white LED light source, comprising: a plurality of blue LEDs or UV LEDs, wherein above each of said LEDs a conversion layer

having a thickness is disposed, and wherein the thickness of the conversion layer is proportional to ~~the exact~~ a determined wavelength of the blue or UV LED concerned.